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GROUP 3600

Applicants: Joakim O. Blanch, et al. §
Serial No.: 10/025,528 § Group Art Unit: 3663
Filed: 12/18/01 § Examiner: Nelson Moskowitz
For: Acoustic Logging Apparatus § Confirmation No.: 6433
And Method §

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
IN CONJUNCTION WITH AN (eIDS)

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Att'y Docket No.: 1391-26800
Client's Ref. No.: 2001-IP-004078
Date: February 4, 2004

Sir:

In accordance with 37 CFR §1.97, §1.98, Applicants are providing herewith copies of the supplementary items listed on the attached U.S. Patent and Trademark Office Form PTO 1449. Since this application was filed prior to June 30, 2003, a copy of each publication listed on Form PTO-1449 is enclosed herewith. This information is supplemental to the Information Disclosure Statement and Form PTO 1449 filed in the above-referenced case on February 4, 2004.

The submission of this Supplemental Information Disclosure Statement and Form PTO-1449 and the references submitted therewith is not an admission that the art cited is "prior" with respect to the present invention, nor is it a representation that no better art exists. Applicants hereby reserve the right to swear behind or otherwise disprove any alleged "prior" nature of any art cited should the facts support and the situation warrant such an action.

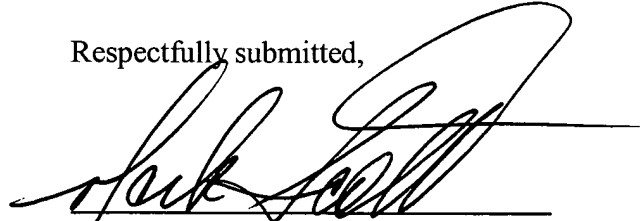
It is submitted that the art cited does not constitute a bar to the patentability of Applicants' invention under 35 U.S.C. § 102 or § 103.

Electronic Information Disclosure Statement

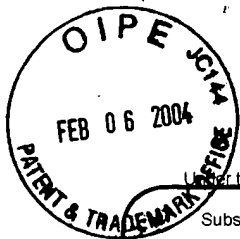
As a part of this submission, an electronic Information Disclosure Statement (eIDS) has been submitted on this date, and includes a listing of U.S. Patent and Published Applications of which Applicants are aware. A printed copy of that submission is attached hereto.

Because an Office Action has been entered in this case, the electronic Information Disclosure Statement and this Information Disclosure Statement are being filed under C.F.R. § 1.97(c). **However, Applicants have authorized and paid the \$180 fee by and through the electronic Information Disclosure Statement. Thus, no additional fee is required in connection with this paper submission.**

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Mark E. Scott', is written over a horizontal line.

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ATTORNEY FOR APPLICANTS



PTO/SB/08a (05-03)

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Substitute for form 1449A/PTO

Complete if Known**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 3

Application Number	10/025,528
Filing Date	December 18, 2001
First Named Inventor	Joakim O. Blanch
Art Unit	3663
Examiner Name	Nelson Moskowitz
Attorney Docket Number	1391-26800

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 6,449,560	09-10-2002	Kimball	
		US-			
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GROUP 3600**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶

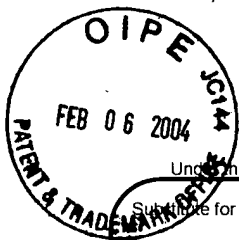
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Application Number	10/025,528
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First Named Inventor	Joakim O. Blanch
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Attorney Docket Number	1391-26800

Sheet	2	of	3
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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Alan Brie et al., "New Directions in Sonic Logging"; Spring 1998, (pp. 40-55); Oilfield Review	
		Batakrishna Mandal, "Shear wave Anistrophy from Single Dipose Source" (undated)	
		Chung Chang et al.; "Localized Maps of the Subsurface," (pp. 56-66) Spring 1998; Oilfield Review	
		G. Brewton, "The Geology of the Skinner, Bartlesville and Miesner Sandstones in Well DM21A At Catoosa"; Amoco publication, Nov. 1996	
		B. A. Auld, "Acoustic Fields and Waves in Solids", Vol. I (pp. 68-423), A Wiley-Interscience Publication	
		K. Koster et al., "Dipole Shear Anistrophy Logging", Amoco Publication SL3.7 (pp. 1139-1142)	
		"Faults and Faulting", EAS-A193 Class Notes, SLU (9 pp.)	
		"Seismic Waves and Earth's Interior", EAS-A193 Class Notes, SLU (13 pp.)	
		Dr. Daniel A. Ruselle, "Sound Fields Radiated by Simple Sources", Kettering University (4 pp.)	
		N. Cheng et al., "Borehole Geophysics I: Well Logging; Decomposition and particle motion of acoustic dipole log in anistrophic formation; Earth Resources Lab MIT	

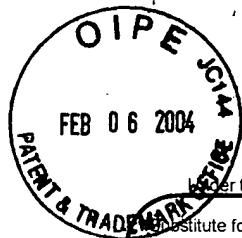
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Sheet	3	of	3	Attorney Docket Number	1391-26800

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		J.O. Blanch et al., "A Method to Extract Fast and Slow Shear Wave Velocities in an Anisotropic Formation; SEG International Exposition and 72nd Annual Meeting, 10/11/02	
		P. Carrion et al., "Source wavelet and its angular spectrum from plane-wave seismograms", geophysics, Vol. 55, No. 8 (Aug. 1990), pp. 1026-2035	
		Chuen Hon Cheng et al., "Elastic wave propagation in a fluid-filled borehole and synthetic acoustic logs", Geophysics, Vol. 46, No. 7 (July 1981), pp. 1042-1053	
		L. Thomsen, "Reflection seismology over azimuthally anisotropic media", Geophysics, Vol. 53, No. 3 (March 1988), pp. 304-313	

Examiner Signature		Date Considered	
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ELECTRONIC INFORMATION DISCLOSURE STATEMENT
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Electronic Version v1 8

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Title of Invention	Acoustic Logging Apparatus and Method																																																																																																
<p>Application Number: 10/025528 *10/025528*</p> <p>Confirmation Number: 6433</p> <p>First Named Applicant: Joakim Blanch</p> <p>Attorney Docket Number: 139126800</p> <p>Art Unit: 3663</p> <p>Examiner: Nelson Moskowitz</p> <p>Search string: (4794572 or 4803666 or 4817061 or 4888743 or 4903244 or 4933913 or 5027332 or 5029146 or 5136554 or 5214613 or 6188961 or 6098021 or 6526354 or 4789969 or 4648039 or 4951267 or 5398215 or 4995008 or 5999486 or 5835452).pn.</p> <p>US Patent Documents</p> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>init</th> <th>Cite.No.</th> <th>Patent No.</th> <th>Date</th> <th>Patentee</th> <th>Kind</th> <th>Class</th> <th>Subclass</th> </tr> </thead> <tbody> <tr> <td></td> <td>1</td> <td>4794572</td> <td>1988-12-27</td> <td>Sondergeld</td> <td></td> <td>367</td> <td>31</td> </tr> <tr> <td></td> <td>2</td> <td>4803666</td> <td>1989-02-07</td> <td>Alford</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>3</td> <td>4817061</td> <td>1989-03-28</td> <td>Alford et al.</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>4</td> <td>4888743</td> <td>1989-12-19</td> <td>Thomsen</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>5</td> <td>4903244</td> <td>1990-02-20</td> <td>Alford</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>6</td> <td>4933913</td> <td>1990-06-12</td> <td>Thomsen</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>7</td> <td>5027332</td> <td>1991-06-25</td> <td>Alford</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>8</td> <td>5029146</td> <td>1991-07-02</td> <td>Alford</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>9</td> <td>5136554</td> <td>1992-08-04</td> <td>Thomsen et al.</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>10</td> <td>5214613</td> <td>1993-05-25</td> <td>Esmersey</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>11</td> <td>6188961</td> <td>1991-02-13</td> <td>Mandal</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass		1	4794572	1988-12-27	Sondergeld		367	31		2	4803666	1989-02-07	Alford					3	4817061	1989-03-28	Alford et al.					4	4888743	1989-12-19	Thomsen					5	4903244	1990-02-20	Alford					6	4933913	1990-06-12	Thomsen					7	5027332	1991-06-25	Alford					8	5029146	1991-07-02	Alford					9	5136554	1992-08-04	Thomsen et al.					10	5214613	1993-05-25	Esmersey					11	6188961	1991-02-13	Mandal			
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	12	6098021	2000-08-01	Tang et al.
	13	6526354	2003-02-25	Bose et al.
	14	4789969	2008-12-06	Naville
	15	4648039	1987-03-03	Devaney et al.
	16	4951267	1990-08-21	Chang et al.
	17	5398215	1995-03-14	Sinha et al.
	18	4995008	1991-02-19	Hornbostel et al.
	19	5999486	1999-12-07	DeVault
	20	5835452	1998-11-19	Mueller et al.

Signature

Examiner Name	Date

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Title of
Invention

Acoustic Logging Apparatus and Method

Submission Type: Information Disclosure Statement

Application Number: 10/025528

*10/025

EFS ID: 54781

Server Response:

Confirmation Code	Message
ISVR1	Submission was successfully submitted - Even if Informational or Warning Messages appear below, please not resubmit this application
ICON1	6433
ISYS5	Filename= N/A BusinessRule= Validation System/Function Call Information. #Supporting Msg:Server unable to validate the Confirmation/Application numbers at this time. They will be checked by PTO personnel later.

First Named Applicant: Joakim Blanch

Attorney Docket Number: 139126800

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